EduSahara™ Learning Center Assignment

Grade   : Class VIII, SSC
Chapter   : Comparing Quantities using Proportion
Name   : Clock Problems
Licensed To : Teachers and Students for non–commercial use

---

1. In 40.00 min., the minute hand makes

   (i) 242.00° (ii) 239.00° (iii) 238.00° (iv) 240.00° (v) 241.00°

---

2. In 52.00 min., the hour hand makes

   (i) 26.00° (ii) 28.00° (iii) 25.00° (iv) 24.00° (v) 27.00°

---

3. In how many minutes, the minute hand makes an angle of 204.00°?

   (i) 36 min. (ii) 35 min. (iii) 32 min. (iv) 34 min. (v) 33 min.

---

4. In how many minutes, the hour hand makes an angle of 11.00°?

   (i) 24 min. (ii) 21 min. (iii) 22 min. (iv) 23 min. (v) 20 min.

---

5. What is the angle between the minute and hour hands at 11:13?

   (i) 258.50° (ii) 257.50° (iii) 260.50° (iv) 259.50° (v) 256.50°

---

6. At what time between 2 hrs and 3 hrs, the angle between the minute and hour hands is 176.50°?

   (i) 02:45:00 (ii) 02:43:00 (iii) 02:46:00 (iv) 02:40:00 (v) 02:41:00

---

7. What is the time between 8 hrs and 9 hrs when the two hands coincide?

   (i) 08:43:38 (ii) 08:46:38 (iii) 08:41:38 (iv) 08:40:38 (v) 08:45:38

---

8. What is the time between 9 hrs and 10 hrs, when the two hands are perpendicular to each other?

   (i) 09:34:44 (ii) 09:29:44 (iii) 09:32:44 (iv) 09:35:44 (v) 09:30:44

---

9. What is the time between 2 hrs and 3 hrs, when the two hands are opposite to each other?

   (i) 02:43:38 (ii) 02:46:38 (iii) 02:41:38 (iv) 02:45:38 (v) 02:40:38

---

10. A watch which gains time uniformly was observed to be 2 min. slow at 11:26 AM on a day. At 03:58 PM on the same day it was 1 min. fast. At what time did the watch show the correct time?

(i) 02:25 PM (ii) 02:29 PM (iii) 02:30 PM (iv) 02:24 PM (v) 02:27 PM

---

11. A watch which gains time uniformly was observed to be 6 min. slow at 01:39 PM on a day and 6 min. fast at 10:09 PM on the next day. At what time did the watch show the correct time?

(i) 05:52 AM next day (ii) 05:54 AM next day (iii) 05:56 AM next day (iv) 05:57 AM next day (v) 05:51 AM next day

---

12. A watch which looses time uniformly showed 3 min. fast on a day when the correct time was 02:18 PM. It was observed to be 2 min. slow at 07:52 PM on the same day. When did the watch show the correct time?

(i) 05:41 PM (ii) 05:36 PM (iii) 05:38 PM (iv) 05:35 PM (v) 05:40 PM

---

13. A watch which looses time uniformly showed 3 min. fast on a day when the correct time was 01:03 PM. It was observed to be 2 min. slow at 06:05 PM on the next day. When did the watch show the correct time?

(i) 06:31 AM next day (ii) 06:26 AM next day (iii) 06:28 AM next day (iv) 06:30 AM next day (v) 06:25 AM next day

---

14. A clock was set at 02:33 PM on 14th April. On 15th April, at 04:33 PM, the clock showed 04:41 PM. If the clock showed 01:33 PM on 16th April, what was the correct time then?

(i) 01:16:37 PM (ii) 01:20:37 PM (iii) 01:18:37 PM (iv) 01:15:37 PM (v) 01:21:37 PM

---

15. A clock was set at 00:20 PM on 14th September. On 15th September, at 03:20 PM, the clock showed 03:13 PM. If the clock showed 07:20 AM on 16th September, what was the correct time then?

(i) 07:28:11 AM (ii) 07:29:11 AM (iii) 07:34:11 AM (iv) 07:33:11 AM (v) 07:31:11 AM

---

16. If the time in a clock is 2 hrs 39 min., then what time does its mirror image show?

(i) 09:24 (ii) 09:18 (iii) 09:21 (iv) 09:19 (v) 09:23

---

17. In 0.00 min., the minute hand makes

(i) 7.00° (ii) 0.00° (iii) 2.00° (iv) 8.00° (v) 1.00°

---

18. In 39.00 min., the hour hand makes

(i) 20.50° (ii) 19.50° (iii) 17.50° (iv) 21.50° (v) 18.50°

---

19. In how many minutes, the minute hand makes an angle of 84.00°?

(i) 14 min. (ii) 15 min. (iii) 16 min. (iv) 13 min. (v) 12 min.

20. In how many minutes, the hour hand makes an angle of 18.00°?

(i) 36 min. (ii) 38 min. (iii) 34 min. (iv) 35 min. (v) 37 min.

21. What is the angle between the minute and hour hands at 01:26?

(i) 115.00° (ii) 112.00° (iii) 113.00° (iv) 114.00° (v) 111.00°

22. At what time between 11 hrs and 12 hrs, the angle between the minute and hour hands is 192.50°?

(i) 11:27:00 (ii) 11:23:00 (iii) 11:22:00 (iv) 11:28:00 (v) 11:25:00

23. What is the time between 11 hrs and 12 hrs when the two hands coincide?

(i) 00:00:00 (ii) 11:57:00 (iii) 00:03:00 (iv) 00:02:00 (v) 11:58:00

24. What is the time between 6 hrs and 7 hrs, when the two hands are perpendicular to each other?

(i) 06:13:22 and 06:46:05 (ii) 06:16:22 and 06:49:05 (iii) 06:14:22 and 06:47:05 (iv) 06:18:22 and 06:51:05 (v) 06:19:22 and 06:52:05

25. What is the time between 11 hrs and 12 hrs, when the two hands are opposite to each other?

(i) 11:27:16 (ii) 11:30:16 (iii) 11:25:16 (iv) 11:29:16 (v) 11:24:16

26. A watch which gains time uniformly was observed to be 3 min. slow at 10:15 AM on a day. At 01:12 PM on the same day it was 2 min. fast. At what time did the watch show the correct time?

(i) 11:59 AM (ii) 11:58 AM (iii) 00:04 PM (iv) 00:01 PM (v) 00:03 PM

27. A watch which gains time uniformly was observed to be 4 min. slow at 06:21 AM on a day and 2 min. fast at 09:19 AM on the next day. At what time did the watch show the correct time?

(i) 00:17 AM next day (ii) 00:21 AM next day (iii) 00:16 AM next day (iv) 00:22 AM next day (v) 00:19 AM next day

28. A watch which looses time uniformly showed 1 min. fast on a day when the correct time was 11:28 AM. It was observed to be 2 min. slow at 05:15 PM on the same day. When did the watch show the correct time?

(i) 01:23 PM (ii) 01:21 PM (iii) 01:25 PM (iv) 01:20 PM (v) 01:26 PM

29. A watch which looses time uniformly showed 6 min. fast on a day when the correct time was 01:38 PM. It was observed to be 2 min. slow at 09:15 PM on the next day. When did the watch show the correct time?

(i)	01:20 PM next day	(ii)	01:18 PM next day	(iii)	01:17 PM next day	(iv)	01:22 PM next day	(v)	01:23 PM next day

30. A clock was set at 08:55 AM on 14th April. On 15th April, at 11:55 AM, the clock showed 00:03 PM. If the clock showed 01:55 PM on 16th April, what was the correct time then?

(i) 01:42:23 PM (ii) 01:41:23 PM (iii) 01:37:23 PM (iv) 01:39:23 PM (v) 01:36:23 PM

31. A clock was set at 09:20 AM on 20th October. On 21st October, at 05:20 PM, the clock showed 05:12 PM. If the clock showed 10:20 AM on 22nd October, what was the correct time then?

(i) 10:29:18 AM (ii) 10:32:18 AM (iii) 10:35:18 AM (iv) 10:34:18 AM (v) 10:30:18 AM

32. If the time in a clock is 10 hrs 10 min., then what time does its mirror image show?

(i) 01:53 (ii) 01:48 (iii) 01:47 (iv) 01:50 (v) 01:52

Assignment Key

1) (iv)
2) (i)
3) (iv)
4) (iii)
5) (i)
6) (ii)
7) (i)
8) (iii)
9) (i)
10) (v)
11) (ii)
12) (iii)
13) (iii)
14) (iii)
15) (v)
16) (iii)
17) (ii)
18) (ii)
19) (i)
20) (i)
21) (iii)
22) (v)
23) (i)
24) (ii)
25) (i)
26) (iv)
27) (v)
28) (i)
29) (i)
30) (iv)
31) (ii)
32) (iv)